Oscar Cardenas, Software Engineer

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Education

The Open University - 2020-2026 (*part-time*)
Bachelor of Science (hons) Computing and IT(Software)

Lycée Langevin – 2007-2009
BEP Menuiserie Bois (Woodwork) (equivalent to BTEC level 2)

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Software Projects

dan-bloodworth-paintings – Full-stack Web Application

(available at: https://dan-bloodworth-paintings.web.app)
A service oriented, serverless web art gallery system built with Vite, Svelte, Typescript, Express.js and Firebase.
- Serverless shared API backend for CRUD operations on paintings with Google Cloud Functions
- Single page admin client with Firebase serverless hosting and authentication,
- Single page gallery client with Firebase serverless hosting
- Firebase serverless NoSQL database and storage

lofted-web – User Interface

(offline)
A single-page web client with dynamic UI components built in vanilla JavaScript, HTML/CSS and bootstrap.
- Multi-step upload form, with client-side validation with regex patterns and real-time feedback,
- Bespoke carousel using custom CSS animations Serverless authentication with Firebase

Palinodes – Full-stack Web Application

(demo available at: https://github.com/OscarCarde/capstone)
A monolithic MVC collaborative audio repository platform with API capabilities built with Python Django.
- Object-oriented hierarchical file system with file upload/management
- Interactive collaboration features: timestamped commenting, notifications, user search
- WaveSurfer.js audio player with waveform visualization
- REST API for CRUD operations on repositories, directories, files, and user profiles
- Unit testing and Django ORM implementation

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Skills

- **Fundamentals of Software Engineering:** Domain analysis, requirements engineering, architectural styles, design patterns and Agile practices.
- **Programming:** Data structures & algorithms, object-oriented programming (OOP); experience with Python, Java, JavaScript/TypeScript.
- **Web Development:** Backend, frontend, cloud-native application development, and web frameworks (Django, Svelte, React, Express.js)

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Work Experience

Barista:
Through my extensive experience in specialty coffee and hospitality, I have developed skills in problem solving under pressure, high attention to detail, workflow management and communication.
- *Blas (London)* – March 2025 – Present
- *Good as Gold (London)* – March 2024 – February 2025
- *Brewed (London)* – December 2020 – January 2024
- *Yellow Warbler (London)* – June 2017 – August 2019

Manager:
Management in growing businesses sharpened my skills in problem solving, time management and communication.
- *Dark Arts Coffee (London)* – August 2019 - October 2020
- *Yellow Warbler Coffee* – June 2017 - August 2019

Chef – *Honest Burgers* – January 2017 – June 2017
Recycling Centre Assistant – *GrabALoad (Melbourne)* – October 2015 - November 2016
Kitchen Assistant – *Provence Plage (La Seyne sur Mer)* – March 2015 - September 2015
Retail Assistant – *[Various businesses] (Toulon)* – 2009 - 2014
Music Tutor – Self-employed *(Toulon)* – 2009 - 2016

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Interests

- Music composition and live performance
- Digital Signal Processing and music technology
- Web development

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Summary and Motivation

I'm a self-motivated new developer with a non-traditional background, combining hands-on project experience with academic study toward a first-class BSc in Computing and IT. My work spans full-stack development, serverless systems, and creative problem-solving — from designing web applications to exploring the intersection of code and sound. I'm now looking for an opportunity where I can continue learning, contribute meaningfully, and grow as part of a collaborative engineering team.